5 # DYNAMIC SOFTWARE CODE INSTRUMENTATION METHOD AND SYSTEM

ABSTRACT OF THE DISCLOSURE

A method and system of monitoring code after being

10 compiled or assembled is provided. Software code

instructions, such as a function preamble and/or a data

manipulation instruction, are identified using debug

information and then dynamically replaced with an

instruction that will branch execution to a scratchpad

15 buffer. A routine is inserted into the scratchpad buffer,

and includes instruction(s) to generate output to a trace

buffer. Subsequent instructions in the scratchpad may

execute the replaced instruction(s) and branch back to the

address of the program code immediately following the

20 original address of the replaced instruction.